FIMBRIAE 2/3 FROM *BORDETELLA PERTUSSIS*

Fimbriae 2/3 (FIM 2/3) consists of two major agglutinogens (antigens 2 and 3) out of six agglutinogens, produced by various strains of *Bordetella pertussis*.[1] It is a component of several injectible acellular pertussis vaccines for the prevention of whooping cough.[2,3] Purified FIM 2/3 does not have any activity in hemaglutination assay (HA) using various animal erythrocytes and is antigenically, chemically, and structurally distinct from the filamentous hemagglutinin (FHA) of *B. pertussis.*[4] FIM 2/3 is a protein with an approximate molecular weight of 22 kDa.[4]

When run on 12% SDS-PAGE in the presence of a reducing agent, FIM 2/3 from List Biological Laboratories exhibits a single major band of apparent molecular weight of ~21 kDa. When examined in immunoblot or Western Blot experiments, this product reacts with anti-Fimbriae 2 and anti-Fimbriae 3 antibodies, but not with anti-Pertactin, anti-FHA nor anti-Pertussis Toxin S1 antibodies.

FIM 2/3 is aseptically packaged and is provided as a lyophilized powder. When reconstituted with 250 µL of sterile purified water, each vial contains 50 µg of protein in 0.05 M Tris, 0.15 M NaCl at pH 8.0 with 0.1% Sucrose. A detailed lot analysis including recommended storage conditions accompanies each shipment.

This product is intended for research purposes and is not intended for use in humans. For further information, please contact List Biological Laboratories, Inc.

Ordering Information

Product No.	Description	Size
186	Fimbriae 2/3 from *Bordetella pertussis* (FIM 2/3)	50 µg

See how others have used List Labs' products on our citations page: https://www.listlabs.com/citations

References

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2. Poolman JT, Hallander HO. Acellular pertussis vaccines and the role of pertactin and fimbriae. Expert Rev. Vaccines. 2007; 6(1):47-56. **PMID:17280478**

3. Irons LI, Ashworth LAE, Robinson A. Release and purification of fimbrae from Bordetella Pertussis. Develop. Bio. Standard. 1985; 61:153-163. **PMID:2872101**

4. Zhang JM, Cowell JL, Steven AC, Carter PH, McGrath PP, Manclark CR. Purification and characterization of fimbriae isolated from Bordetella pertussis. Infection and Immunity. 1985; 48(2):422-427. **PMID:2859248**

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